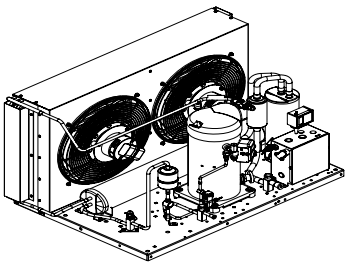
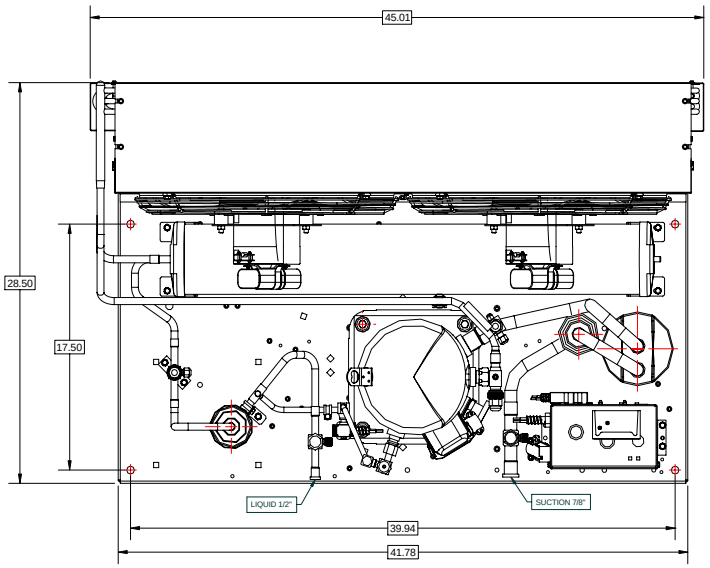
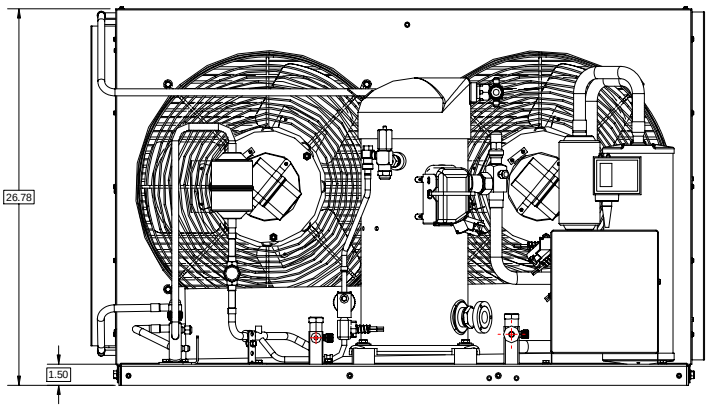
TECUMSEH HERMETIC CONDENSING UNIT

Model	**VSAG522ZXTXM**
BOM	**32T5442-2**
Air Cooled	**5 ½ HP**
Application	**Low Temp**
Refrigerant	**R404A**







VSAG522ZXTXM	Dimensions (inch)*			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs.
	28.50	44.97	26.78	7/8 Sweat	1/2 Sweat	37.69	4200	24	400

*) Mounting Holes, 17.50 x 39.94

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures															
		80°F				90°F				100°F				110°F			
T, °F	PSIG	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
-40	5.5	8800	3980	194	87	8400	4380	225	97	8600	4790	260	107	8300	5190	299	117
-35	8.0	11000	4050	197	88	10200	4460	229	98	10100	4870	263	108	9500	5280	302	118
-30	10.7	13200	4130	201	89	12100	4550	232	99	11700	4970	267	109	10800	5380	305	118
-25	14.0	15400	4230	206	91	14000	4650	236	100	13300	5080	271	110	12200	5500	308	119
-20	17.1	17700	4340	210	92	16000	4760	241	101	15100	5200	275	111	13600	5630	312	120
-15	19.3	20200	4460	215	94	18200	4890	245	103	16900	5330	279	112	15300	5760	317	121
-10	**24.5**	**22700**	**4590**	**220**	**95**	**20400**	**5020**	**250**	**104**	**18900**	**5460**	**284**	**113**	**17000**	**5900**	**321**	**122**
-5	28.8	25400	4730	225	97	22800	5160	255	105	21100	5610	289	114	19000	6050	326	124
0	33.5	28200	4870	230	98	25400	5310	260	107	23500	5760	294	116	21100	6210	331	125
5	36.5	31200	5020	236	100	28200	5460	266	109	26000	5910	300	117	23500	6370	337	126
10	43.7	34400	5170	242	102	31100	5620	272	110	28800	6070	306	119	26100	6530	343	127

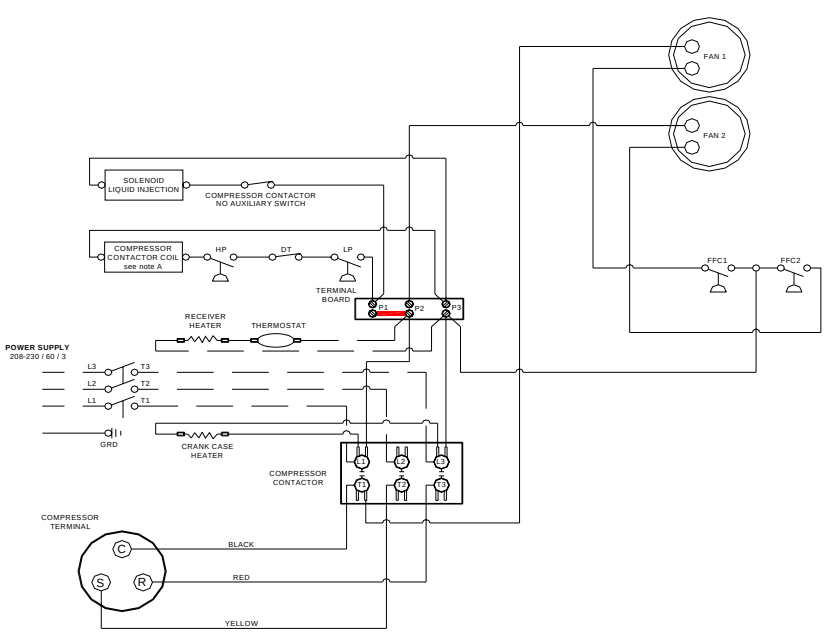
Performance @ 60 Hz, Return gas 40°F, SubCooling 5°F

PRELIMINARY PERFORMANCE DATA

Parts/Specifications

Unit BOM	**32T5442-2**	Fan Motor	810S186B40
Unit MODEL	**VSAG522ZXTXM**	Fan Motor Qty	2
		Fan Motor RLA	1.9
Refrigeration RANGE	-40°F to 10°F	Fan Blade	51528-3
Design Pressure Low	181	Fan Guard	70832
Design Pressure High	450	Shroud	70611-1
Volts - HZ - Ph	200-230V 3~ 60HZ		
Voltage Range	180 - 253	High Pressure switch	84095-2
Min. Circuit Ampacity	24.31	Low Pressure Control	84026-2
Max. Fuse Size	40	Dual Pressure Conrol	
Compressor MODEL	VSAG518ZXT	Condenser	50777-6
Compressor BOM	VS119RT-006-A4	Head Master Valve	
Compressor LRA	153	Check Valve	
Compressor RLA	16.41	Process Valve	
		Liquid Valve	
OverLoad	INTERNAL	Suction Valve	31529-2
Relay			
Run Capacitor		Receiver	51084
Run Capacitor Rating		Receiver Qty	1
Start Capacitor		Accumulator	TK00044000
Start Capacitor Rating		Liquid Filter	52000-164D
Contactor	91014B	Sight Glass	70084-2
		Suction Filter	70822-5S
Unit Drawing	DGU1950-14		
Wiring Diagram	WD23-2FL	CrankCase Heater	

IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
USE COPPER CONDUCTORS ONLY.
(EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)



NOTES

FIELD WIRING NOTES

1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
3. IF REQUIRED INSTALL SYSTEM REMOTE CONTROL BETWEEN P1 AND P2 IN TERMINAL BLOCK AND REMOVE THE JUMPER

GENERAL NOTES:

A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.

FFC1 (FFC2) — FAN CONTROL 1 (2)
LP — LOW PRESSURE CONTROL
HP — HIGH PRESSURE SWITCH
DT — DISCHARGE LINE THERMOSTAT

——— FACTORY COMPONENTS
– – – – – OPTIONAL FACTORY COMPONENTS
——— OPTIONAL FIELD COMPONENTS

CONDENSING UNIT WIRING, 230V 60Hz 3 Ph,
Liquid Injection Solenoid,
Fan control,

REL
REVISION
DEC 21, 2010

WD23-2FL